X20A SAFETY CHECKLIST				BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE		
Rev: B	Effective: 5/6/04	4	Page 1 of	1	Number: LS-SCL-0044	
Reviewed by: Thomas McDonald		Reviewed by	y:		Approved by: A. Ackerman	

Original signatures on file.

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After completing this form call Operation Coordinator for Safety Approval Form (SAF)

For locations of beamline checkpoints see Beamline Schematic.

- ☐ 1. Valid Padlock Index and log, no locks open
 - A. Check to make sure all safety shutter interlocks are satisfied (white panel at top of equipment rack)

Check points 2-19 are along beamline X20A, beginning at upstream end.

Best access to 2-17 is between X19&X20.								
	Lead scatter shield		amline pipes and BI	tooth wall), as in photo 1. E window, as in photo 2. bove valve 1.				
	Exclusion Zone 1. Bremsstrahlung sl O D. Check	e valve 1 open (indicate A, B, C (EZ #1). Scatte nield 2A, B, C (BS # 2) k pressure for X20A at	r Shield under EZ # as in photo 4. Ion pump controlle	as in photo 3. er located below				
□ 7	Exclusion Zone 2. Bremsstrahlung sl	rahlung shield 2, should A, B, C (EZ #2) as in p nield 3A, B, C (BS # 3) nield (BS # 4) as in pho	hoto 5. as in photo 6.	torr.				
□ 9	Lead shielding sliE. Wate	t #2 and bellows #2 as or flow for mirror, locat observation cross #1 a	in photo 8. ed near floor.	n photo 8.				
□ 1 □ 1:	 Lead shielding on Bremsstrahlung sl 	mirror tank, as in phot nield (BS # 5) as in phot bellows #3 and downs	o 9. to 10.	•				
□ 1·	 □ 14. Bremsstrahlung shield (BS # 6) and lead covering upstream pipe as in photo 11. □ 15. Bremsstrahlung shield (BS # 7) as in photo 12. ○ F. Water flow for monochromator, located near floor behind roughing pump. 							
	6. Lead shielding on7. Leaded Plexiglas	bellows #4 and on top on monochromator view	of observation cross wports (on top 2 vie	s #2 as in photo 13. wports).				
□ 1°		t 18 is inside the x20C h		ved through its door window.				
Cheo	eked by:	Date:						
	OPCO:	Date:						